## AMENDMENTS TO THE CLAIMS

Claim 1 (Currently Amended): A film preparation method for preparing an oxygen

radical containing calcium aluminate film, characterized in that it comprises comprising subjecting to thermal spraying a powder of comprising an oxygen radical-containing calcium aluminate to thermal spraying comprising powdered crystalline

12CaO·7A1<sub>2</sub>O<sub>3</sub> (C<sub>12</sub>A<sub>7</sub>) having an oxygen radical content of at least 10<sup>20</sup> cm<sup>-3</sup>, where the thermal spraying melts the powder only at the surface of the powder or in the vicinity of the

depositing the thermally sprayed powder onto a substrate as a film comprising deposited crystalline 12CaO·7Al<sub>2</sub>O<sub>3</sub> (C<sub>12</sub>A<sub>7</sub>) having an oxygen radical content of at least 10<sup>20</sup> cm<sup>-3</sup>.

Claims 2-3 (Canceled)

surface of the powder; and

Claim 4 (Currently Amended): The method according to Claim [[3]] 1, wherein the powdered crystalline 12CaO·7Al<sub>2</sub>O<sub>3</sub> (C<sub>12</sub>A<sub>7</sub>) is obtained by a solid phase reaction of a Ca source and an Al source in a mol ratio of Ca:Al being from 0.77:1 to 0.96:1.

Claim 5 (Original): The method according to Claim 4, wherein the solid phase reaction is carried out in a dry oxidizing atmosphere having an oxygen partial pressure of at least 10<sup>4</sup> Pa, a steam partial pressure of at most 10<sup>2</sup> Pa and a temperature of from 1,200 to 1,415°C, or after the solid phase reaction, the system is maintained in such a dry oxidizing atmosphere.

Claim 6 (Currently Amended): The method according to any one of Claims 1 [[to]], 4 and 5, wherein the thermal spraying is carried out by plasma spraying.

Claims 7-10 (Canceled)

Claim 11 (New): The method according to Claim 1, wherein the powder subjected to thermal spraying consists of the oxygen radical-containing calcium aluminate.

Claim 12 (New): The method according to Claim 1, wherein the oxygen radical-containing calcium aluminate further comprises at least one selected from the group consisting of 3CaO•Al<sub>2</sub>O<sub>3</sub>(C<sub>3</sub>A), CaO•Al<sub>2</sub>O<sub>3</sub>(CA), CaO•2Al<sub>2</sub>O<sub>3</sub>(CA<sub>2</sub>) and CaO•6Al<sub>2</sub>O<sub>3</sub>(CA<sub>6</sub>).

Claim 13 (New): The method according to Claim 11, wherein the oxygen radical-containing calcium aluminate further comprises at least one selected from the group consisting of 3CaO•Al<sub>2</sub>O<sub>3</sub>(C<sub>3</sub>A), CaO•Al<sub>2</sub>O<sub>3</sub>(CA), CaO•2Al<sub>2</sub>O<sub>3</sub>(CA<sub>2</sub>) and CaO•6Al<sub>2</sub>O<sub>3</sub>(CA<sub>6</sub>).